

In the Claims

For the convenience of the Examiner, all pending claims are set forth below, whether or not an amendment is made. Please amend the claims as follows:

1. (Currently Amended) A method for encoding one or more bits, comprising:
 - receiving a bit set to encode;
 - accessing an encoding lookup table associating a plurality of correlithm objects with a plurality of bit sets, a correlithm object of the plurality of correlithm objects corresponding to a bit set of the plurality of bit sets, each correlithm object comprising a point of an N-dimensional space, each correlithm object randomly generated by randomly selecting one or more values for one or more entries of the each correlithm object, each bit set comprising one or more bits;
 - identifying the correlithm object corresponding to the received bit set;
 - encoding the received bit set as the identified correlithm object;
 - imposing the identified correlithm object;
 - recovering the identified correlithm object;
 - accessing a decoding lookup table associating the recovered correlithm object with the received bit set; and
 - determining the received bit set associated with the recovered correlithm object according to the decoding lookup table.
2. (Original) The method of Claim 1, further comprising:
 - using the plurality of correlithm objects as a plurality of tokens; and
 - assigning one or more tokens of the plurality of tokens to a token assignee.
3. (Original) The method of Claim 1, wherein imposing the identified correlithm object further comprises performing a computation using the identified correlithm object.
4. (Canceled)

5. (Currently Amended) A system for encoding one or more bits, comprising:
a memory operable to:

store a received bit set to encode; and

store an encoding lookup table associating a plurality of correlihm objects with a plurality of bit sets, a correlihm object of the plurality of correlihm objects corresponding to a bit set of the plurality of bit sets, each correlihm object comprising a point of an N-dimensional space, each correlihm object randomly generated by randomly selecting one or more values for one or more entries of the each correlihm object, each bit set comprising one or more bits; and

one or more processors coupled to the memory and operable to:

identify the correlihm object corresponding to the received bit set;

encode the received bit set as the identified correlihm object;

impose the identified correlihm object;

recover the identified correlihm object;

access a decoding lookup table associating the correlihm object with the received bit set; and

determine the received bit set associated with the recovered correlihm object according to the decoding lookup table.

6. (Original) The system of Claim 5, the one or more processors further operable to:

use the plurality of correlihm objects as a plurality of tokens; and

assign one or more tokens of the plurality of tokens to a token assignee.

7. (Original) The system of Claim 5, the one or more processors further operable to impose the identified correlihm object by performing a computation using the identified correlihm object.

8. (Canceled)

9. (Currently Amended) Logic for encoding one or more bits, the logic embodied in a medium and operable to:

receive a bit set to encode;

access an encoding lookup table associating a plurality of correlihm objects with a plurality of bit sets, a correlihm object of the plurality of correlihm objects corresponding to a bit set of the plurality of bit sets, each correlihm object comprising a point of an N-dimensional space, each correlihm object randomly generated by randomly selecting one or more values for one or more entries of the each correlihm object, each bit set comprising one or more bits;

identify the correlihm object corresponding to the received bit set;

encode the received bit set as the identified correlihm object;

impose the identified correlihm object;

recover the identified correlihm object;

access a decoding lookup table associating the recovered correlihm object with the received bit set; and

determine the received bit set associated with the recovered correlihm object according to the decoding lookup table.

10. (Original) The logic of Claim 9, further operable to
use the plurality of correlihm objects as a plurality of tokens; and
assign one or more tokens of the plurality of tokens to a token assignee.

11. (Original) The logic of Claim 9, further operable to impose the identified correlihm object to encode the received bit set by performing a computation using the identified correlihm object.

12. (Canceled)

13. (Currently Amended) A system for encoding one or more bits, comprising:

means for receiving a bit set to encode;

means for accessing an encoding lookup table associating a plurality of correlihm objects with a plurality of bit sets, a correlihm object of the plurality of correlihm objects corresponding to a bit set of the plurality of bit sets, each correlihm object comprising a point of an N-dimensional space, each correlihm object randomly generated by randomly selecting one or more values for one or more entries of the each correlihm object, each bit set comprising one or more bits;

means for identifying the correlihm object corresponding to the received bit set;

means for encoding the received bit set as the identified correlihm object; and

means for imposing the identified correlihm object.

14. (Original) A method for encoding one or more bits, comprising:

receiving a bit set to encode;

accessing an encoding lookup table associating a plurality of correlihm objects with a plurality of bit sets, a correlihm object of the plurality of correlihm objects corresponding to a bit set of the plurality of bit sets, each correlihm object comprising a point of an N-dimensional space, each bit set comprising one or more bits, the plurality of correlihm objects randomly generated by randomly selecting one or more values for one or more entries of a correlihm object;

using the plurality of correlihm objects as a plurality of tokens;

assigning one or more tokens of the plurality of tokens to a token assignee;

identifying the correlihm object corresponding to the received bit set;

encoding the received bit set as the identified correlihm object;

imposing the identified correlihm object, the identified correlihm object imposed to perform a computation using the identified correlihm object;

recovering the identified correlihm object;

accessing a decoding lookup table associating the recovered correlihm object with the received bit set; and

determining the received bit set associated with the recovered correlihm object according to the decoding lookup table.